

Appl. No. 10/064,045
Amdt. dated November 16, 2005
Reply to Office action of August 25, 2005

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

- 1 (currently amended): A method for updating a ciphering key used in a network system,
- 5 the network system comprising:
- a server for storing registration data;
- an access point connected to the server for transmitting data received from the server
 via wireless transmission and receiving data transmitted via wireless transmission;
- and
- 10 a station for transmitting data to the access point via wireless transmission and
 receiving data transmitted from the access point via wireless transmission, the
 station storing a first ciphering key;
- the method comprising:
- the access point transmitting a first challenge text to the station via wireless
- 15 transmission;
- the station using the first ciphering key stored in the station to encrypt the first
 challenge text into a first response text;
- the station transmitting the encrypted first response text back to the access point via
 wireless transmission;
- 20 the access point comparing the first response text with a first predetermined text;
- the station transmitting identification data to the access point when the first response
 text matches the first predetermined text;
- the access point transmitting the identification data of the station to the server; and
- the access point transmitting a second ciphering key to the station for replacing the
- 25 first ciphering key when the identification data matches the registration data,
 wherein the second ciphering key is encrypted by the first ciphering key before
 being transmitted to the station.

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2 (cancelled).

3 (original): The method of claim 1 wherein the station uses the second ciphering key to
encrypt the data transmitted to the access point and to decrypt the data received from
5 the access point after the first ciphering key is replaced by the second ciphering key.

4 (original): The method of claim 1 wherein the station uses the second ciphering key to
encrypt the data transmitted to the station after the access point transmits the second
ciphering key to the station.
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5 (original): The method of claim 1 wherein the first predetermined text is generated from
encrypting the challenge text by the first ciphering key.

6 (original): The method of claim 1 further comprising requesting a response from a user
15 of the station before replacing the first ciphering key by the second ciphering key.

7 (original): The method of claim 1 wherein the network comprises a plurality of stations,
and each station comprises the first ciphering key.

20 8 (original): The method of claim 1 wherein further comprising:
the access point transmitting a second challenge text to the station via wireless
transmission after the second ciphering key is transmitted to the station;
using the second ciphering key stored in the station to encrypt the second challenge
text into a second response text;
25 transmitting the second response text back to the access point via wireless
transmission; and
the access point comparing the second response text with a second predetermined
text.